# CONTENTS


## 1. MACHINE SUMMARY

1. Preface ..... 1-1
   CAUTION ..... 1-2
   WARNING ..... 1-3
   NOTICE ..... 1-4
2. Features of the Risograph GR3770 ..... 1-5
3. Specifications ..... 1-6
4. Product Compatibility ..... 1-7

## 2. DRUM SECTION

**[ Theory of Operation ]**

1. Drum Insertion Error Preventive System ..... 2-1
2 Ink Bottle Detecting System ..... 2-2
3. Ink Supply System ..... 2-3

**[ Removal ]**

1. Ink Bottle Set SW Assy. ..... 2-4

## 3. FLAT BED IMAGE SCANNING SECTION

**[ Theory of Operation ]**

1. Scanner Table Setting System ..... 3-1
2. Stop Position of Image Scanner ..... 3-2
3. Image Scanner Position Detecting System ..... 3-3
4. Flat Bed Original Set Confirming System ..... 3-6
5. Flat Bed Auto Scanning Contrast Adjustment System ..... 3-7
6. Flat Bed Image Scanning System ..... 3-8

**[ Removal ]**

1. Stage Glass ..... 3-10
2. Image Scanner Unit ..... 3-11
3. Flat Bed Original Detection Sensor and Image Flexible Wire ..... 3-12
4. Flat Bed Read Pulse Motor Unit ..... 3-13
5. Original Stopper and Shading Glass ..... 3-14

## 4. MASTER MAKING SECTION

**[ Removal ]**

1. Thermal Print Head ..... 4-1

**[ Adjustment ]**

1. Thermal Power of Thermal Print Head ..... 4-3

## 5. MASTER CLAMP & LOADING SECTION

**[ Theory of Operation ]**

1. Clamp Unit Home Positioning System ..... 5-1
2. Clamp Plate Master Release System ..... 5-2
3. Clamp Plate Master Clamp System ..... 5-4

**[ Removal ]**
1. Clamp Unit ..... 5-6
2. Disassembling of Clamp Unit ..... 5-7
3. Angle Sensor Ass'y. ..... 5-8

# APPENDIX (I)

**[ TEST MODE ]**
1. Operation Procedures ..... APX(I)-1
2. Testing Sensor and Switch ..... APX(I)-3
3. Testing Motor and Solenoid ..... APX(I)-4
4. Memory Switch ..... APX(I)-5
5. Memory Clear and Counter Stop, etc. ..... APX(I)-7
6. Sequential Operation Test ..... APX(I)-8
7. Panel Test ..... APX(I)-10

**[ ADVICE DISPLAYS ]**
1. Trouble Messages (T Display) ..... APX(I)-11
2. Trouble Messages (Others) ..... APX(I)-15
3. Setting Confirmation Messages ..... APX(I)-18
4. Change-of-Consumables Messages ..... APX(I)-19

# APPENDIX (II) DESCRIPTION OF PCB'S

1. Block chart ..... APX(II)-1
2. Location of PCBs ..... APX(II)-2
3. SYSTEM PCB2 ..... APX(II)-3
4. Image Processing PCB (IPIF) ..... APX(II)-10
5. Motor Control PCB MK2 ..... APX(II)-13
6. Drum Control PCB3 ..... APX(II)-15
7. ADF PCB ..... APX(II)-17
8. FBI PCB ..... APX(II)-19
9. Option PCB AIII ..... APX(II)-22
10. LCD Control PCB ..... APX(II)-24
11. Power Supply PCB 100-120V ..... APX(II)-26
12. Power Supply PCB 200-240V ..... APX(II)-28
13. TPH Sub PCB ..... APX(II)-31